

## NEW PRESSURE RECORD SET AT THE ALS (Contact: Simon Clark, SMClark@lbl.gov)

Beamline 12.2.2, the extreme conditions beamline, has a new record for the highest pressure. On Saturday, April 26, Kirill Zhuravlev from the Geological and Planetary Science department of the California Institute of Technology set the new beamline record of 1.12 million bar using a symmetric diamond anvil cell while measuring the equation of state of an iron-rich ferropericlase sample. To give you an idea of how extreme this is, this pressure is equivalent to the pressure existing at the boundary of the Earth's mantle and core. This work is aimed at helping us understand the structure of the innermost Earth and will help improve our current models of planetary evolution.

